



SEQUENCE LISTING

<110> MAHESWARAN, SHYAMALA
DONAHOE, PATRICIA K.

<120> USE OF MULLERIAN INHIBITING SUBSTANCE AND INTERFERON
FOR TREATING TUMORS

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Val	Arg	Ala	Leu	Arg	Val	Pro	Pro	Ala	Arg	Ala	Ser	Ala	Pro	Arg	Leu	275	280	285
Ala	Leu	Asp	Pro	Asp	Ala	Leu	Ala	Gly	Phe	Pro	Gln	Gly	Leu	Val	Asn	290	295	300
Leu	Ser	Asp	Pro	Ala	Ala	Leu	Glu	Arg	Leu	Leu	Asp	Gly	Glu	Glu	Pro	305	310	315
Leu	Leu	Leu	Leu	Leu	Arg	Pro	Thr	Ala	Ala	Thr	Thr	Gly	Asp	Pro	Ala	325	330	335
Pro	Leu	His	Asp	Pro	Thr	Ser	Ala	Pro	Trp	Ala	Thr	Ala	Leu	Ala	Arg	340	345	350
Arg	Val	Ala	Ala	Glu	Leu	Gln	Ala	Ala	Ala	Ala	Glu	Leu	Arg	Ser	Leu	355	360	365
Pro	Gly	Leu	Pro	Pro	Ala	Thr	Ala	Pro	Leu	Leu	Ala	Arg	Leu	Leu	Ala	370	375	380
Leu	Cys	Pro	Gly	Gly	Pro	Gly	Gly	Leu	Gly	Asp	Pro	Leu	Arg	Ala	Leu	385	390	395

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<210> 7
<211> 575
<212> PRT
<213> Bos taurus
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<400> 7
Met Pro Gly Pro Ser Leu Ser Leu Ala Leu Val Leu Ser Ala Met Gly
   1                               5                      10                15

Ala Leu Leu Arg Pro Gly Thr Pro Arg Glu Glu Val Phe Ser Thr Ser
      20                        25

Ala Leu Pro Arg Glu Gln Ala Thr Gly Ser Gly Ala Leu Ile Phe Gln
      35                          40                  45

Gln Ala Trp Asp Trp Pro Leu Ser Ser Leu Trp Leu Pro Gly Ser Pro
    50                            55                    60

Leu Asp Pro Leu Cys Leu Val Thr Leu His Gly Ser Gly Asn Gly Ser
   65                                70                     75              80

Arg Ala Pro Leu Arg Val Val Gly Val Leu Ser Ser Tyr Glu Gln Ala
      85                              90                95

Phe Leu Glu Ala Val Arg Arg Thr His Trp Gly Leu Ser Asp Leu Thr
     100                             105                 110

Thr Phe Ala Val Cys Pro Ala Gly Asn Gly Gln Pro Val Leu Pro His
     115                             120                 125
```


Leu	Gln	Arg	Leu	Gln	Ala	Trp	Leu	Gly	Glu	Pro	Gly	Gly	Arg	Trp	Leu	
130						135					140					
Val	Val	Leu	His	Leu	Glu	Glu	Val	Thr	Trp	Glu	Pro	Thr	Pro	Leu	Leu	
145					150					155					160	
Arg	Phe	Gln	Glu	Pro	Pro	Pro	Gly	Gly	Ala	Ser	Pro	Pro	Glu	Leu	Ala	
				165					170					175		
Leu	Leu	Val	Val	Tyr	Pro	Gly	Pro	Gly	Leu	Glu	Val	Thr	Val	Thr	Gly	
			180					185					190			
Ala	Gly	Leu	Pro	Gly	Thr	Gln	Ser	Leu	Cys	Leu	Thr	Ala	Asp	Ser	Asp	
		195					200					205				
Phe	Leu	Ala	Leu	Val	Val	Asp	His	Pro	Glu	Gly	Ala	Trp	Arg	Arg	Pro	
210						215					220					
Gly	Leu	Ala	Leu	Thr	Leu	Arg	Arg	Arg	Gly	Asn	Gly	Ala	Leu	Leu	Ser	
225					230					235					240	
Thr	Ala	Gln	Leu	Gln	Ala	Leu	Leu	Phe	Gly	Ala	Asp	Ser	Arg	Cys	Phe	
				245					250					255		
Thr	Arg	Lys	Thr	Pro	Ala	Leu	Leu	Leu	Leu	Leu	Pro	Ala	Arg	Ser	Ser	
			260					265					270			
Ala	Pro	Met	Pro	Ala	His	Gly	Arg	Leu	Asp	Leu	Val	Pro	Phe	Pro	Gln	
		275					280					285				
Pro	Arg	Ala	Ser	Pro	Glu	Pro	Glu	Glu	Ala	Pro	Pro	Ser	Ala	Asp	Pro	
	290					295					300					
Phe	Leu	Glu	Thr	Leu	Thr	Arg	Leu	Val	Arg	Ala	Leu	Ala	Gly	Pro	Pro	
305					310					315					320	
Ala	Arg	Ala	Ser	Pro	Pro	Arg	Leu	Ala	Leu	Asp	Pro	Gly	Ala	Leu	Ala	
				325					330					335		
Gly	Phe	Pro	Gln	Gly	Gln	Val	Asn	Leu	Ser	Asp	Pro	Ala	Ala	Leu	Glu	
			340					345					350			
Arg	Leu	Leu	Asp	Gly	Glu	Glu	Pro	Leu	Leu	Leu	Leu	Leu	Pro	Pro	Thr	
		355					360					365				
Ala	Ala	Thr	Thr	Gly	Val	Pro	Ala	Thr	Pro	Gln	Gly	Pro	Lys	Ser	Pro	
		370				375					380					
Leu	Trp	Ala	Ala	Gly	Leu	Ala	Arg	Arg	Val	Ala	Ala	Glu	Leu	Gln	Ala	
385					390					395					400	
Val	Ala	Ala	Glu	Leu	Arg	Ala	Leu	Pro	Gly	Leu	Pro	Pro	Ala	Ala	Pro	
				405					410					415		
Pro	Leu	Leu	Ala	Arg	Leu	Leu	Ala	Leu	Cys	Pro	Gly	Asn	Pro	Asp	Ser	
			420					425					430			

Pro	Gly	Gly	Pro	Leu	Arg	Ala	Leu	Leu	Leu	Lys	Ala	Leu	Gln	Gly	
		435					440				445				
Leu	Arg	Ala	Glu	Trp	Arg	Gly	Arg	Glu	Arg	Ser	Gly	Ser	Ala	Arg	Ala
	450					455					460				
Gln	Arg	Ser	Ala	Gly	Ala	Ala	Ala	Ala	Asp	Gly	Pro	Cys	Ala	Leu	Arg
465					470					475					480
Glu	Leu	Ser	Val	Asp	Leu	Arg	Ala	Glu	Arg	Ser	Val	Leu	Ile	Pro	Glu
				485					490					495	
Thr	Tyr	Gln	Ala	Asn	Asn	Cys	Gln	Gly	Ala	Cys	Gly	Trp	Pro	Gln	Ser
			500					505					510		
Asp	Arg	Asn	Pro	Arg	Tyr	Gly	Asn	His	Val	Val	Leu	Leu	Leu	Lys	Met
		515					520					525			
Gln	Ala	Arg	Gly	Ala	Thr	Leu	Ala	Arg	Pro	Pro	Cys	Cys	Val	Pro	Thr
	530					535					540				
Ala	Tyr	Thr	Gly	Lys	Leu	Leu	Ile	Ser	Leu	Ser	Glu	Glu	Arg	Ile	Ser
545					550					555					560
Ala	His	His	Val	Pro	Asn	Met	Val	Ala	Thr	Glu	Cys	Gly	Cys	Arg	
				565					570					575	

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<210> 8
<211> 551
<212> PRT
<213> Bos taurus
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<400> 8
Arg Glu Glu Val Phe Ser Thr Ser Ala Leu Pro Arg Glu Gln Ala Thr
  1          5          10          15
Gly Ser Gly Ala Leu Ile Phe Gln Gln Ala Trp Asp Trp Pro Leu Ser
      20          25          30
Ser Leu Trp Leu Pro Gly Ser Pro Leu Asp Pro Leu Cys Leu Val Thr
      35          40          45
Leu His Gly Ser Gly Asn Gly Ser Arg Ala Pro Leu Arg Val Val Gly
  50          55          60
Val Leu Ser Ser Tyr Glu Gln Ala Phe Leu Glu Ala Val Arg Arg Thr
  65          70          75          80
His Trp Gly Leu Ser Asp Leu Thr Thr Phe Ala Val Cys Pro Ala Gly
      85          90          95
Asn Gly Gln Pro Val Leu Pro His Leu Gln Arg Leu Gln Ala Trp Leu
      100          105          110
Gly Glu Pro Gly Gly Arg Trp Leu Val Val Leu His Leu Glu Glu Val
      115          120          125

```

Thr	Trp	Glu	Pro	Thr	Pro	Leu	Leu	Arg	Phe	Gln	Glu	Pro	Pro	Pro	Gly	130	135	140
Gly	Ala	Ser	Pro	Pro	Glu	Leu	Ala	Leu	Leu	Val	Val	Tyr	Pro	Gly	Pro	145	150	155
Gly	Leu	Glu	Val	Thr	Val	Thr	Gly	Ala	Gly	Leu	Pro	Gly	Thr	Gln	Ser	165	170	175
Leu	Cys	Leu	Thr	Ala	Asp	Ser	Asp	Phe	Leu	Ala	Leu	Val	Val	Asp	His	180	185	190
Pro	Glu	Gly	Ala	Trp	Arg	Arg	Pro	Gly	Leu	Ala	Leu	Thr	Leu	Arg	Arg	195	200	205
Arg	Gly	Asn	Gly	Ala	Leu	Leu	Ser	Thr	Ala	Gln	Leu	Gln	Ala	Leu	Leu	210	215	220
Phe	Gly	Ala	Asp	Ser	Arg	Cys	Phe	Thr	Arg	Lys	Thr	Pro	Ala	Leu	Leu	225	230	235
Leu	Leu	Leu	Pro	Ala	Arg	Ser	Ser	Ala	Pro	Met	Pro	Ala	His	Gly	Arg	245	250	255
Leu	Asp	Leu	Val	Pro	Phe	Pro	Gln	Pro	Arg	Ala	Ser	Pro	Glu	Pro	Glu	260	265	270
Glu	Ala	Pro	Pro	Ser	Ala	Asp	Pro	Phe	Leu	Glu	Thr	Leu	Thr	Arg	Leu	275	280	285
Val	Arg	Ala	Leu	Ala	Gly	Pro	Pro	Ala	Arg	Ala	Ser	Pro	Pro	Arg	Leu	290	295	300
Ala	Leu	Asp	Pro	Gly	Ala	Leu	Ala	Gly	Phe	Pro	Gln	Gly	Gln	Val	Asn	305	310	315
Leu	Ser	Asp	Pro	Ala	Ala	Leu	Glu	Arg	Leu	Leu	Asp	Gly	Glu	Glu	Pro	325	330	335
Leu	Leu	Leu	Leu	Leu	Pro	Pro	Thr	Ala	Ala	Thr	Thr	Gly	Val	Pro	Ala	340	345	350
Thr	Pro	Gln	Gly	Pro	Lys	Ser	Pro	Leu	Trp	Ala	Ala	Gly	Leu	Ala	Arg	355	360	365
Arg	Val	Ala	Ala	Glu	Leu	Gln	Ala	Val	Ala	Ala	Glu	Leu	Arg	Ala	Leu	370	375	380
Pro	Gly	Leu	Pro	Pro	Ala	Ala	Pro	Pro	Leu	Leu	Ala	Arg	Leu	Leu	Ala	385	390	395
Leu	Cys	Pro	Gly	Asn	Pro	Asp	Ser	Pro	Gly	Gly	Pro	Leu	Arg	Ala	Leu	405	410	415
Leu	Leu	Leu	Lys	Ala	Leu	Gln	Gly	Leu	Arg	Ala	Glu	Trp	Arg	Gly	Arg	420	425	430

Glu Arg Ser Gly Ser Ala Arg Ala Gln Arg Ser Ala Gly Ala Ala Ala
 435 440 445
 Ala Asp Gly Pro Cys Ala Leu Arg Glu Leu Ser Val Asp Leu Arg Ala
 450 455 460
 Glu Arg Ser Val Leu Ile Pro Glu Thr Tyr Gln Ala Asn Asn Cys Gln
 465 470 475 480
 Gly Ala Cys Gly Trp Pro Gln Ser Asp Arg Asn Pro Arg Tyr Gly Asn
 485 490 495
 His Val Val Leu Leu Leu Lys Met Gln Ala Arg Gly Ala Thr Leu Ala
 500 505 510
 Arg Pro Pro Cys Cys Val Pro Thr Ala Tyr Thr Gly Lys Leu Leu Ile
 515 520 525
 Ser Leu Ser Glu Glu Arg Ile Ser Ala His His Val Pro Asn Met Val
 530 535 540
 Ala Thr Glu Cys Gly Cys Arg
 545 550

<210> 9
 <211> 109
 <212> PRT
 <213> Bos taurus

<400> 9
 Ser Ala Gly Ala Ala Ala Ala Asp Gly Pro Cys Ala Leu Arg Glu Leu
 1 5 10 15
 Ser Val Asp Leu Arg Ala Glu Arg Ser Val Leu Ile Pro Glu Thr Tyr
 20 25 30
 Gln Ala Asn Asn Cys Gln Gly Ala Cys Gly Trp Pro Gln Ser Asp Arg
 35 40 45
 Asn Pro Arg Tyr Gly Asn His Val Val Leu Leu Leu Lys Met Gln Ala
 50 55 60
 Arg Gly Ala Thr Leu Ala Arg Pro Pro Cys Cys Val Pro Thr Ala Tyr
 65 70 75 80
 Thr Gly Lys Leu Leu Ile Ser Leu Ser Glu Glu Arg Ile Ser Ala His
 85 90 95
 His Val Pro Asn Met Val Ala Thr Glu Cys Gly Cys Arg
 100 105

<210> 10
 <211> 327
 <212> DNA
 <213> Bos taurus

<400> 10

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agcgccgggg ccgcgggtgc agacggggccg tgcgctctgc gtgagctgag cgtagacctg 60
cgggccgagc gtcgggtgct catccccgag acataccagg ccaacaactg ccagggggcc 120
tgcggctggc ctcagtcggg ccgcaaccgg cgctacggca accacgtggt gctgctgcta 180
aagatgcagg cccgcggcgc caccctggcg cgcccgcct gctgtgtgcc cacagcctac 240
accggcaagc tcctcatcag cctgtccgag gagcgcacatca gtgcgcacca cgtcccaaac 300
atggtggcca ccgaatgcgg ctgccgg 327

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<210> 11

<211> 109

<212> PRT

<213> Homo sapiens

<400> 11

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Ser Ala Gly Ala Thr Ala Ala Asp Gly Pro Cys Ala Leu Arg Glu Leu
 1             5             10             15

Ser Val Asp Leu Arg Ala Glu Arg Ser Val Leu Ile Pro Glu Thr Tyr
      20             25             30

Gln Ala Asn Asn Cys Gln Gly Val Cys Gly Trp Pro Gln Ser Asp Arg
      35             40             45

Asn Pro Arg Tyr Gly Asn His Val Val Leu Leu Leu Lys Met Gln Ala
      50             55             60

Arg Gly Ala Ala Leu Ala Arg Pro Pro Cys Cys Val Pro Thr Ala Tyr
      65             70             75             80

Ala Gly Lys Leu Leu Ile Ser Leu Ser Glu Glu Arg Ile Ser Ala His
      85             90             95

His Val Pro Asn Met Val Ala Thr Glu Cys Gly Cys Arg
      100             105

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<210> 12

<211> 327

<212> DNA

<213> Homo sapiens

<400> 12

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agcgcggggg ccaccgccgc cgacggggccg tgcgcgctgc gcgagctcag cgtagacctc 60
cgcgccgagc gctccgtact catccccgag acataccagg ccaacaattg ccagggcggtg 120
tgcggctggc ctcagtccga ccgcaaccgg cgctacggca accacgtggt gctgctgctg 180
aagatgcagg cccgtggggc cgccctggcg cgcccacct gctgcgtgcc caccgcctac 240
gcgggcaagc tgctcatcag cctgtcggag gaacgcacatca gcgcgcacca cgtgcccac 300
atggtggcca ccgagtgtgg ctgccgg 327

```